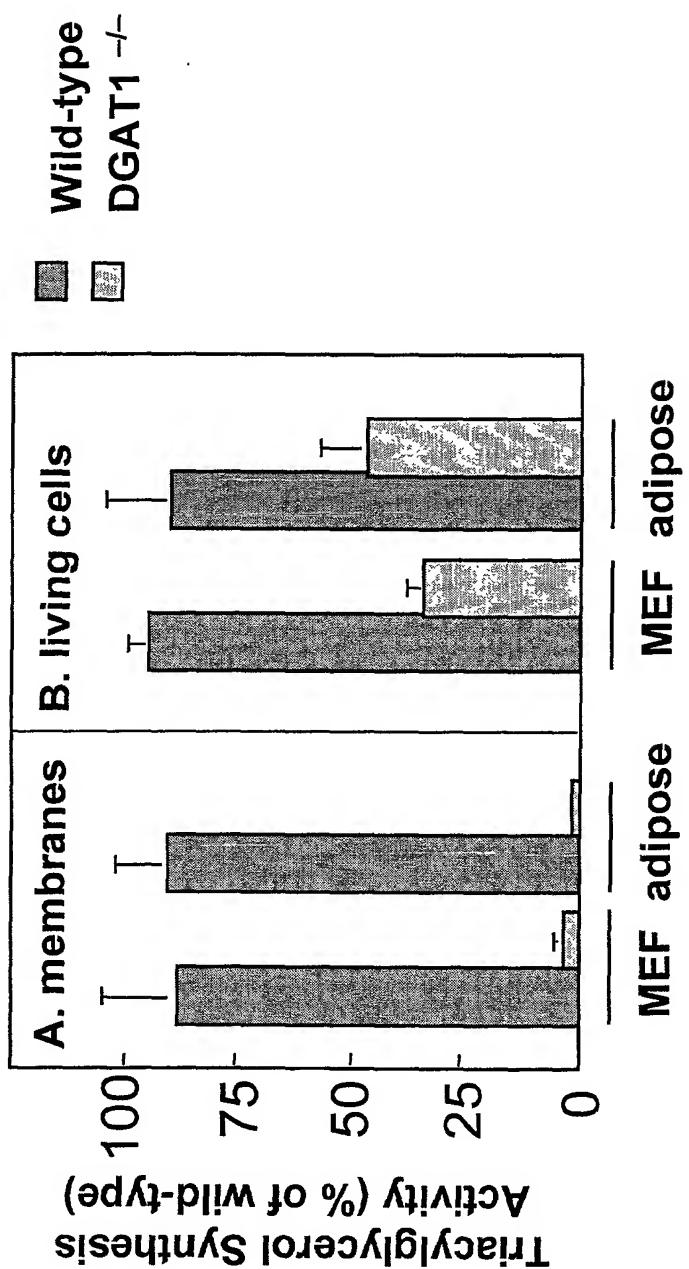


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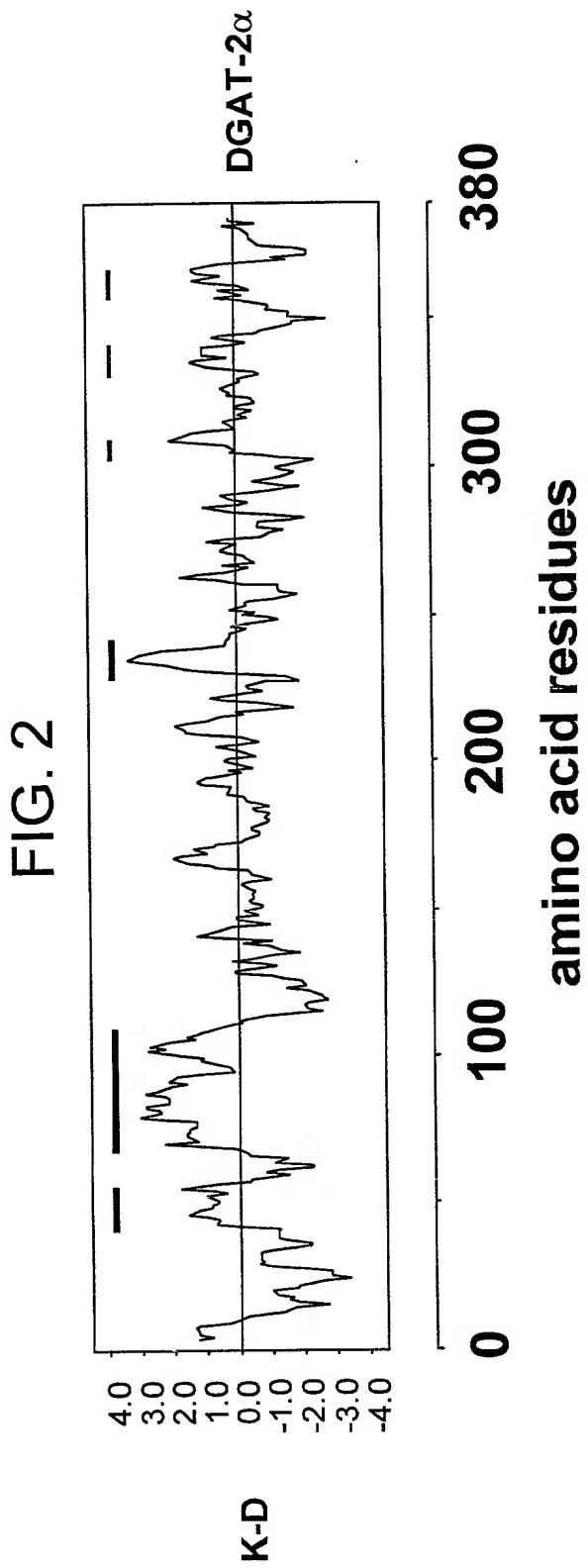
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FIG.



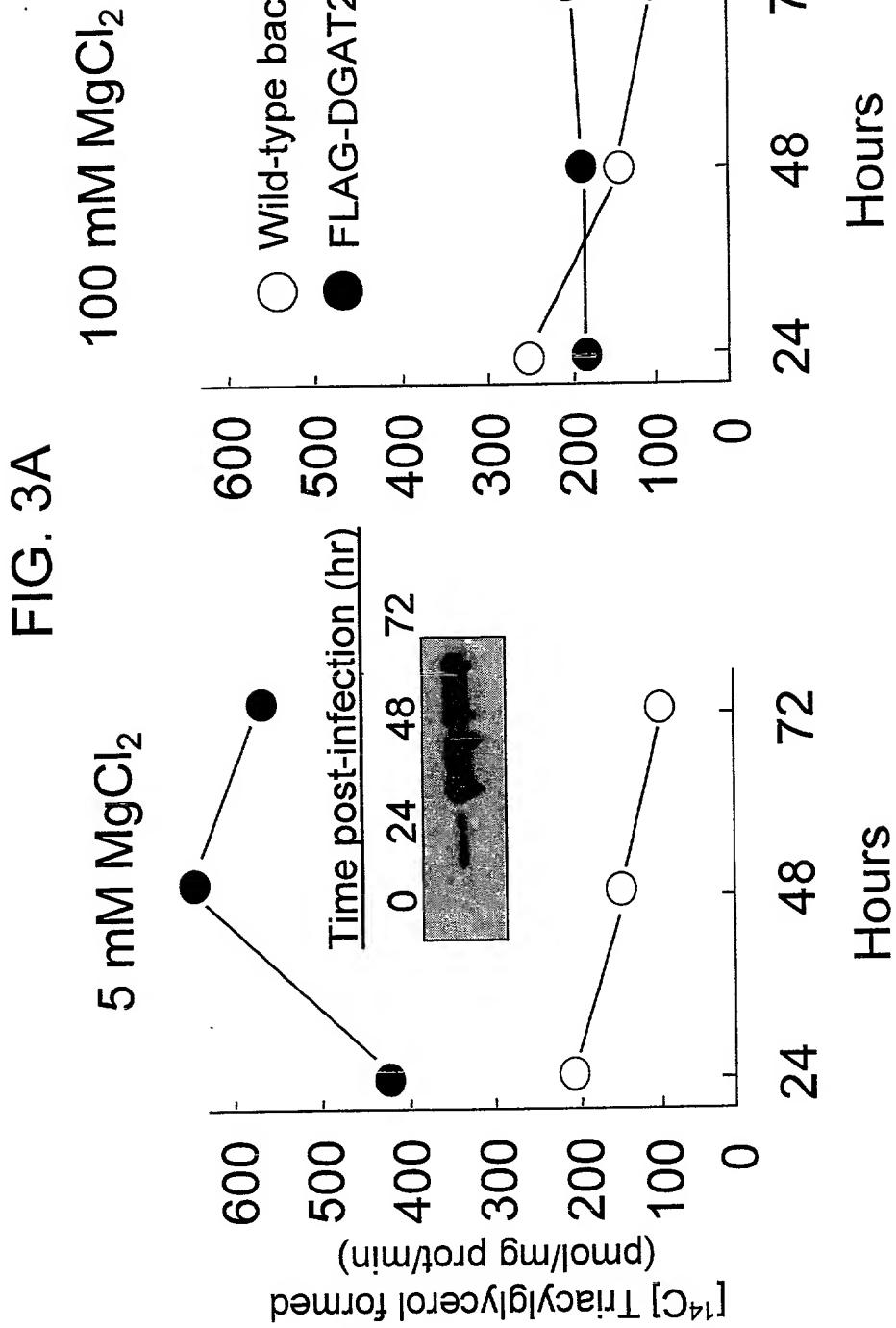
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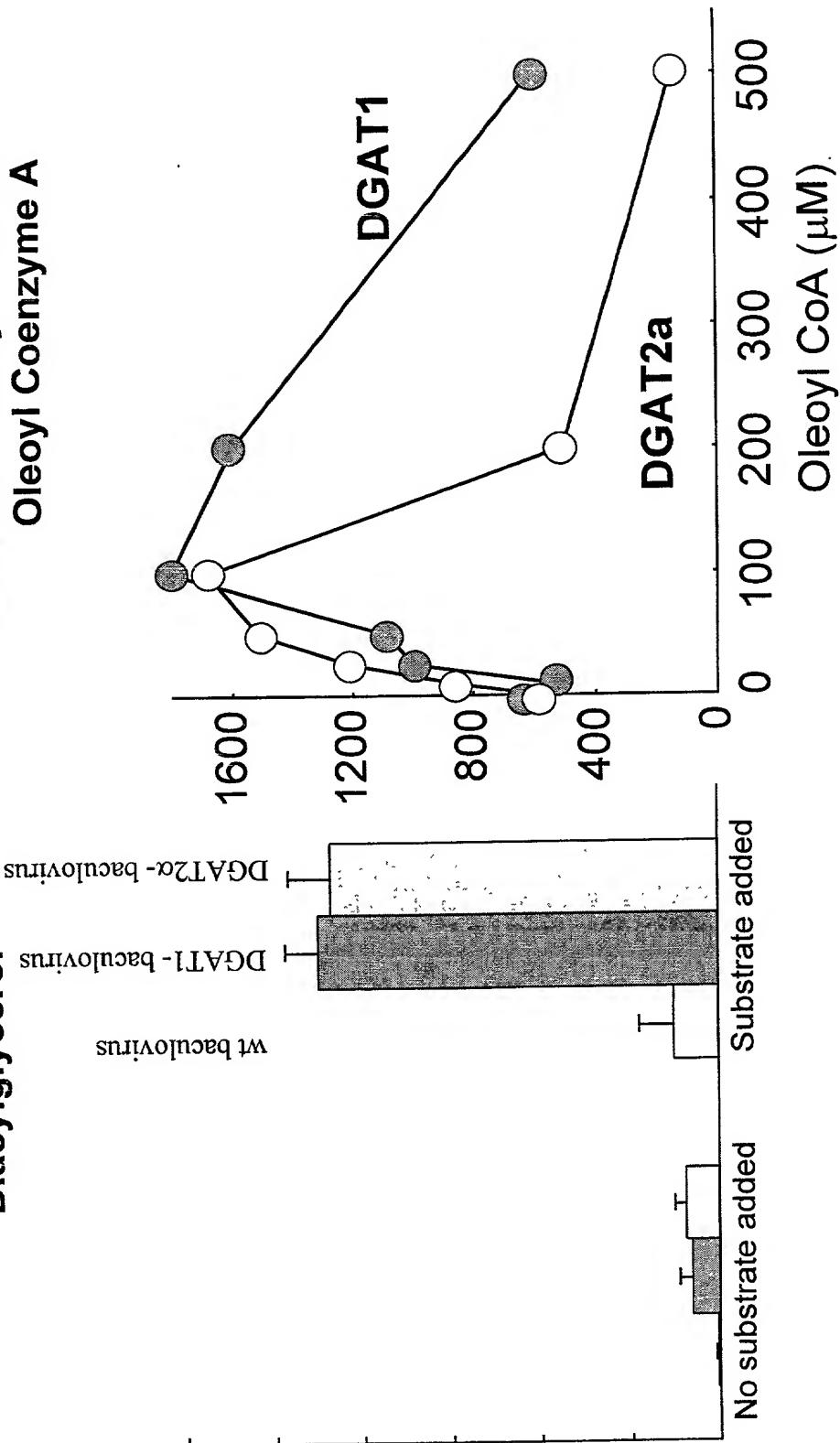


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FIG. 3B
B. DGAT2 α activity as a function of
Diacylglycerol

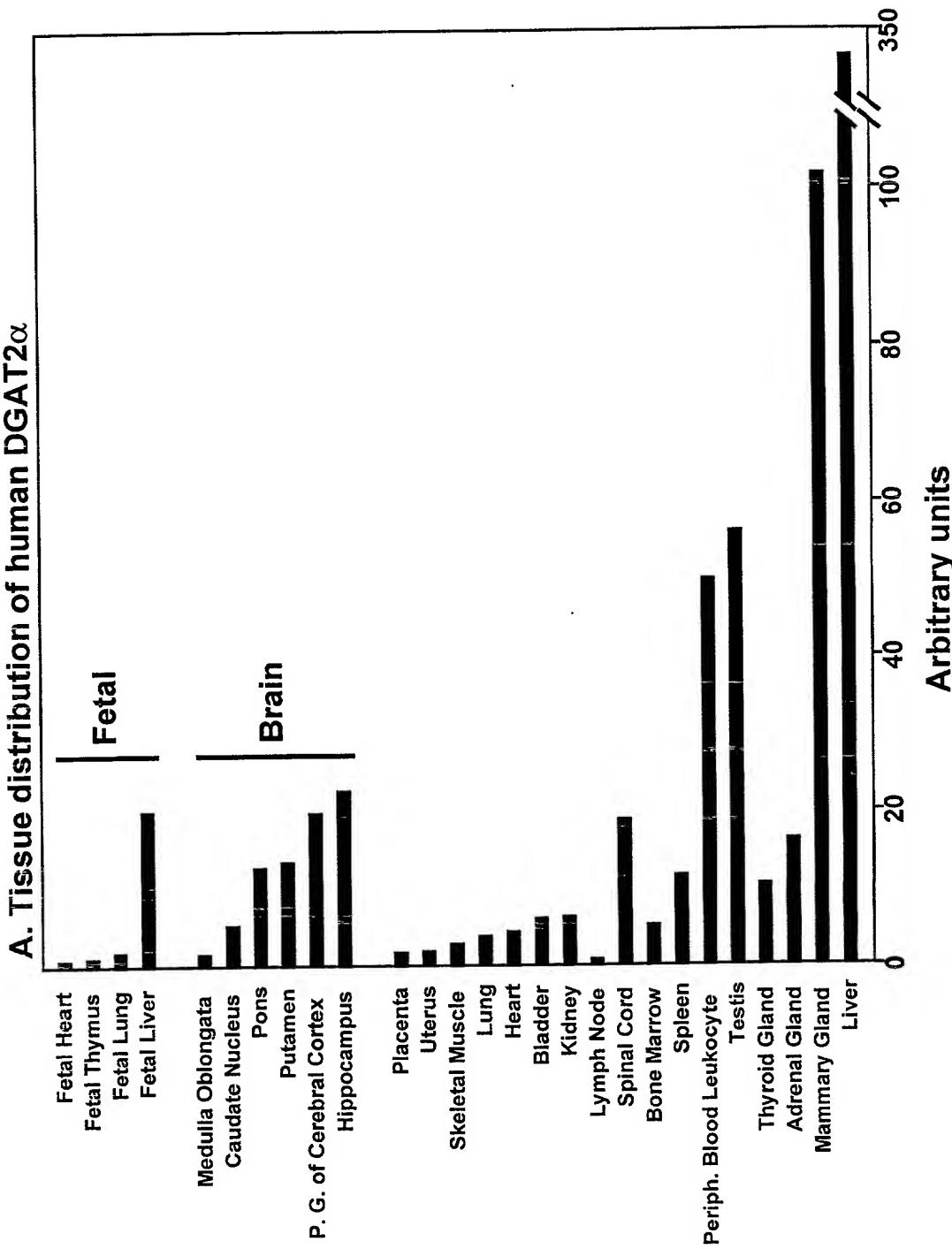
FIG. 3C
C. DGAT2 α activity as a function of
Oleoyl Coenzyme A



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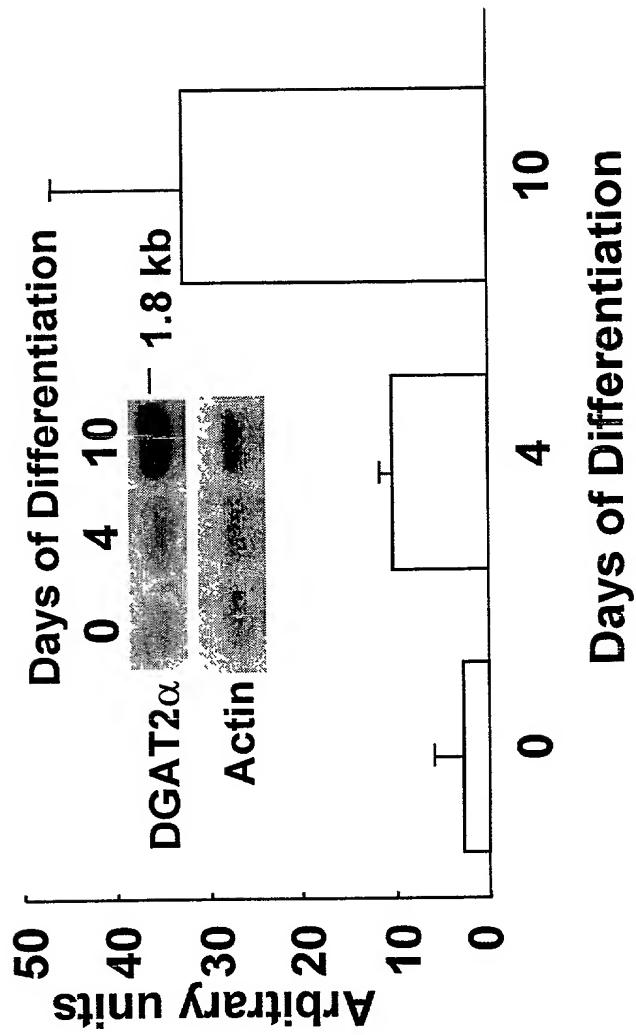
FIG. 4



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FIG. 5



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FIG. 6A

Mouse DGAT2 α amino acid sequence

MKTLIAAYSGVLRGERRAELPAAKNKNKGSALSREGSGRWGTGSSILSALQDIFSVTLNRSKVEKQLQV
ISVLQWVLSFLVLGVACSVILMYTFCTDCWLIAVLYFTWLAFDNTPKKGRRSQVVRNWAWWRYFRDYF
PIQLVKTHNLLTRNYIFGYHPHIMGLGAFCNFSTEATEVSKKPGIRPYLATLAGNFRMPVREYLMS
GGICLVRNDTIDYLLSKNGSGNAlIIVVGGAAESLSSMPGKNAVTLKNRKGFVKLALRHGADLVPTYSFG
ENEVYKQVIFEEGSWRWVKKFQKYIGFAPCIFHGRGLFSSDTWGLVPYSKIPITVVGEPITVPKLEHPT
QKDIDLYHAMYMEALVKLFDNHKTGFGLPETEVLEVN (SEQ ID NO:04)

FIG. 6B

Mouse DGAT2 α nucleic acid sequence

ATGAAGACCCCTCATGCCGCCACTCCGGGGCCTGCGGGGTGAGCGTCGGCGGAAGCTGCCCGAGCGAA
AACAGAAATAAAGGATCTGCCCTGTACCGCAGGGGTCTGGCGATGGGCACGGCTCCAGCATCCTCTCA
GCCCTCCAAGACATCTCTGTACCTGGCTAACAGATCYAAGGTGGAAAACAGCTGCAGGTACATCTCA
GTACTACAATGGGTCTATCCTCCTGGCTAGGAGTGGCCTGCAGTGTACCTCATGTACACCTTCTGC
ACAGACTGCTGGCTGATAGCTGTCTACTTCACCTGGCTGGCATTGACTGGAACACGCCAACAGAAAGGT
GGCAGGAGATCGCAGTGGGTGCGAAACTGGCGCTGTGGCGTACTTCCGAGACTACTTCCCATCCAGCTG
GTGAAGACACACAAACCTGCTGACCACCAAGGAACATATCTTGGATACCACCCCCATGGCATATGGCCTG
GGTGCCTCTGTAACTCAGCACAGAGGCTACTGAAGTCAGCAAGAAGTTCCGGCATAAGGCCCTATTG
GCTACGTTGGCYGGTAACCTCCGGATGCCGTGCTCGCAGTACCTGATGTCGGAGGCATCTGCCCTGTC
AACCGAGACACCATAGACTACTTGCTCTCCAAGAATGGGAGTGGCAATGCTATCATCGTGGGGAGGT
GCAGCTGAGTCCCTGAGCTCCATGCCCTGCGAAGAACGCAAGTCACCCCTGAAGAACCGCAAAGGTTGTGAAG
CTGGCCCTGCCATGGAGCTGATCTGGTCCCACTTATTCCCTGGAGAGAATGAGGTATACAAGCAGGTG
ATCTTGAGGAGGGTCTGGGCCATGGGTCCAGAAGAAGTCCAGAAGTATATTGGTTCCGGCCCTG
ATCTTCCATGGCGAGGCCTCTCTGACACCTGGGGCTGGTCCACTCCAAGGCCATCACCAC
GTCGTGGGGAGCCATCACTGTCCCCAAGCTGGAGCACCCAGAAAGACATCGACCTGTACCATGCC
ATGTACATGGAGGCCCTGGTGAAGCTTTGACAATCACAAGACCAATTGGCCTNCCAGAGACTGAGGTG
CTGGAGGTGAACTGA (SEQ ID NO:03)

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FIG. 7A

Human DAGT2 α amino acid sequence

MKTLIAAYSGVLRGERQAEADRSQRSHGGPALSREGSGRWGTGSSILSALQDLFSVTWLNRSKVEKQLQV
ISVLQWVLSFLVLGVACSAILMYIFCTDCWLIAVLYFTWLVDWNTPKKGGRRSQWVRNWAVWRYFRDYF
PIQLVKTHNLLTTRNYIFGYHPHGIMGLGAFCNFSTEATEVSKFKPGIRPYLATLAGNFRMPVLREYLM
GGICPVSRTDTIDYLLSKNGSGNAIIVVGGAAEELSMPGKNAVTLRNRKGFKVLALRHGADLVPISFG
ENEVYKQVIFEEGSWGRWVQKKFQKYIGFAPCIFHGRGLFSSDTWGLVPYSKPITTGGEPITIPKLEHP
TQQDIDLYHTMYMEALVKLFDKHKTGFGLPETEVLEVN (SEQ ID NO:02)

FIG. 7B

Human DAGT2 α nucleic acid sequence

TTCAGCCATGAAGACCCCTCATAGCCGCTACTCCGGGGTCTCGCGCGAGCGTCAGGCCGAGGCTGACCG
GAGCCAGCGCTCTCACGGAGGACCCGTGTCGCGCGAGGGGCTGGAGATGGGCACTGGATCCAGCATCCT
CTCCGCCCTCCAGGACCTTCTCTGTACCTGGCTCAATAGGTCCAAGGTGGAAAAGCAGCTACAGGTCT
CTCAGTGCTCCAGTGGTCTGTCCCTCTGTACTGGAGTGGCCTGCAGTGCCTCATCTCATGTACATATT
CTGCACTGATTGCTGGCTCATCGCTGTCTACTTCACTTGGCTGGTTTGACTGGAACACACCCAAGAA
AGGTGGCAGGAGGTACAGTGGTCCGAAACTGGCTGTGGCGCTACTTCGAGACTACTTCCCACATCCA
GCTGGTGAAGACACACAAACCTGCTGACCACAGGAACATATATCTTGATACCACCCCCATGGTATCATGGG
CCTGGGTGCCTCTGCAACTTCAGCACAGAGGCCACAGAAGTGAGCAAGAAGTCCAGGCATAACGGCCTTA
CCTGGCTACACTGGCAGGCAACTCCGAATGCCTGTTGAGGGAGTACCTGATGTCAGGAGGTATCTGCC
TGTCAAGCCGGACACCATAGACTATTGCTTTCAAAGAATGGGAGTGGCAATGCTATCATCATGGTCTGG
GGGTGCGGCTGAGTCTGTGAGCTCCATGCCTGGCAAGAATGCAGTCACCCCTGCGGAACCGCAAGGGTTGT
GAAACTGCCCTGCGTCATGGAGCTGACCTGGTCCCATCTACTCCTTGAGAGAATGAAGTGTACAAGCA
GGTATCTCGAGGAGGGCTCTGGGCCGATGGTCCAGAAGAAGTTCCAGAAATACATTGGTTCTGCC
ATGCATCTTCCATGGTCAGGCCTCTCTCCTCCGACACCTGGGGCTGGTCCACTCCAAGCCATCAC
CACTGTTGTGGAGAGCCATACCATCCCCAAGCTGGAGCACCCAGCAAGACATCGACCTGTACCA
CACCATGTACATGGAGGCCCTGGTGAAGCTCTCGACAAGCACAAGACCAAGTTGGCCTCCGGAGACTGA
GGTCTGGAGGTGAAGCTGAGCCAGCCTGGGGCCAATTCCCTGGAGGAACCAGCTGCAAATCACTTTTG
CTCTGTA (SEQ ID NO:01)

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FIG. 8A

Mouse DC2 amino acid sequence

MMVEFAPLNTPLARCLQTAAVLQWVLSFLLLVQVCIGIMVMLVLYNYWFLYIPYLVWFYYDWRTPEQGGR
RWNWVQSPWPVWKYFKEYFPICLVKTQDLDPGHNYIFGFPHGIFVPGAFGNFCTKYSDFKKLFPGFTSYL
HVAKIWFCFPLFREYLMNSGPVSVSKESLHVLSKDGGNVSIIVLGGAKEALEAHPGFTLCIRQRKGF
VKMALTHGASLVPVFSFGENDLYKQINNPKGSLRTIQDAMYDSMGVALPLIYARGIFQHYFGIMPYRKL
IYTVVGRPIPQQILNPTSEQIEELHQTYLEELKKLFNEHKGKYGIPEHETLVFK (SEQ ID NO:06)

Mouse DC2 nucleic acid sequence

ATGATGGTCGAGTTCGCGCCACTCAACACCCGCTGGCACGGTGCCTACAGACCGCTGCGGTGCTGCAGTGG
GTCCTGTCCTCCTCGCTCGAGGTGTGATTGGAAATTATGGTATGCTGGTCTGTACAACATTGG
TTCCTTTACATCCCATACTGGTCTGGTTTACTATGACTGGAGAACCCAGAGCAAGGAGGCAGAAGATGG
AACTGGGTCAAAGCTGGCCTGTGAGTATTAAAGGAGTATTTCACCTGTTAAGGAGTATTCCAACTGTCTGTCAAAACGAG
GATTTGGATCCGGGTACAATTATATTGGGTTTCACCTCATGGAATTCTGTGCCTGGAGCCTTGG
AATTTTTGTACAAAATACTCGGACTTCACAAGAAGCTATTCTGGCTTACATGTATCTCACGTGGCCAAG
ATCTGGTTCTGTTCCCGTTGTCAGAAGAATATCTGATGAGTAACGGGCGGTTCAAGTGTCTAAGGAGAGT
TTGTCATGTGCTGAGCAAGGATGGAGGTGGCAATGTCATCATTGTCCTCGGAGGTGCAAAGGAGGCG
CTGGAGGCTCACCCAGGAACATTACCCCTGTGCATCCGCCAGCGCAAAGGGTTGTTAAGATGGCCTTGACC
CATGGTGCCAGTTGGTCCAGTATTTCCTTTGGTAAAATGATCTATATAAGCAAATTAAACAACCCAAA
GGCTCCTGGCTACGAACATACAGACGCAATGTATGATTCAATGGGAGTAGCCTGCCACTGATATATGCC
AGAGGAATTTCAGCACTACTTGGCATAATGCCCTATCGGAAGCTGATCTACACTGTTGGCCGCGCCT
ATCCCTGTTAGCAGATTCTGAACCCGACCTCAGAGCAGATTGAAGAGCTGCATCAGACATACTAGAGGAG
CTAAAGAAACTATTCAATGAACACAAAGGAAATATGGATTCCGGAGCACGAAACTCTGGTATTAAATAA
(SEQ ID NO:05)

Human DC2 amino acid sequence

MKVEFAPLNIQLARRLQTVAVLQWVLSFLTPMSIGITVMLIIHNYLFLYIPYLMWLYFDWHTPERGRR
SSWIKNWTLWKHFKDYFPIHLIKTQDLPNSHNYIFGFPHGIMAVGAFGNFSVNYSDFKDLFPGFTSYLH
VLPLWFWCVPVFREYVMSVGLVSVSKSVSYMVSKEGGNISVIVLGGAKESLDAHPGKFTLFIRQRKGFV
KIALTHGASLVPVVSFGENELEFKQTDNPEGSWIRTVQNKLQKIMGFALPLFHARGVFQYNGLMTYRKA
HTVVGRPIPVRQTLNPTQEQIEELHQTYMEELRKLFEEHKGKYGIPEHETLVFK (SEQ ID NO:08)

Human DC2 nucleic acid sequence

CGTGGGTGCAGGCTCAGTGGCTGGCGCCGTCTCGCCCGGCCAGGCCATGAAGGTAGAGTTGCACCGCTC
AACATCCAGCTGGCGCGGCCGTGCAGACGGTGGCCGTGCAGTGGTCTTCTTCTTACAGGGCCG
ATGTCCATTGAAATCACTGTGATGCTGATCATACACAACATTGTTCTTACATCCCTTATTGATGTGG
CTTTACTTGACTGGCATACCCAGAGCGAGGAGGAGATCCAGCTGGATCAAATTGGACTCTTGG
AAACACTTAAGGACTATTTCACATCTTACAAACTCAAGATTGGATCCAAGTCACAACATATA
TTGGGTTTACCCCCATGGAATAATGGCAGTTGGAGCCTTGGGAATTTCATGTTAAATTATTCTGACTTC
AAGGACCTGTTCTGGCTTACTTCATATCTCACGTGCTGCCACTTGGTCTGGTCTGTCTTCA
GAATATGTGATGAGTGGTGGCTGGTTCAAGAAAAGTGTGCTACATGTAAGCAAGGAGGGA
GGTGGAAACATCTGTCAATTGCTTGGGGTGCAAAAGAATCACTGGATGCTCATCTGGAAAGTTCACT
CTGTTCATCCGCCAGCGGAAAGGATTGTTAAATTGCTTGAACCATGGCGCCTCTGGTCCAGTGGTT
TCTTTGGTAAAATGAACATGTTAAACAAACTGACAACCCGTGAAGGATCATGGATTAGAACACTGTTCA
AAACTGCAAGAGATCATGGGGTTGCTTGCCTGTTCATGCCAGGGAGTTTCAGTACAATTGGC
CTAATGACCTATAGGAAAGCCATCCACACTGTTGGCCGCCGATCCCTGTTGTCAGACTCTGAACCCG
ACCCAGGAGCAGATTGAGGAGTTACATCAGACCTATATGGAGGAACCTAGGAAATTGTTGAGGAACACAAA

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FIG. 8B

Mouse DC3 amino acid sequence (partial sequence, about 100 amino acids gap in the center of the protein)

MKTEHLQSLSLQWPLSYVAMFWIVQPLLICLLFTPLWPLPTVYFWLWLDWKTPDKGGRSDWVRNWV
WNHIRDYFPITILKTKDLSPENYIMGVPHGLLTFGAFCNFCTEATGFSKTFPGITPHLATLSWFFKIP
IIRDYIMAKGLCSVSQASIDYLLSHGTGNLVGIPPIITVVGAEALPLPVKNPSPEIVDKYHALYMDALYKL
FEQHKVQYQGCSNTQKLIFL (SEQ ID NO:10)

Mouse DC3 nucleic acid sequence (partial sequence, about 100 amino acids gap in the center of the protein)

TTACCTCCCTCAGGGCCTGGGCATCATGCTTGCTATGAAGACTGAACACTTACAGAGTCTGAGCCTTC
TGCAGTGGCCCTTGAGCTACGTGCCATGTTGGATTGTGCAGCCATTGTAATTGCCATTGTCACAC
CCTTGTGGCGCTACCAACAGTTACTTTGCTGGTACTTCTCGACTGGAAGACTCCAGATAAAGGTGGCA
GGCGTTCAAGACTGGGTACGGAACCTGGAAATGTCTGGAACCATCAGGGACTATTCCTCCATTACAATCCTGA
AGACTAAGGACCTGTACCTTCAGAGAACTACATCATGGGGTCCACCCATNGGTCTCCTGACCTCGGTG
CCTTCTGCAACTTCTGCACTGAGGCCACAGGCTCTCGAAGACCTTCCCAGGCATCACTCCTCACTTGGCCA
CAC (SEQ ID NO:09)

Human DC3 amino acid sequence

MAFFSRLNLQEGLQTFFVLQWIPVYIFLVWILQPLFVYLLFTSLWPLPVLYFAWLFLDWKTPERGGRRSA
WVRNWCVWTHIRDYFPITILKTKDLSPEHNYLMGVPHGLLTFGAFCNFCTEATGFSKTFPGITPHLATL
SWFFKIPFVREYLMAKGVCVSQAINYLLSHGTGNLVGIVVGVGEALQSPNTTLLILQKRKGFRVTA
LQHGAYLVPYSYSFGENEVFNQETFPEGTWLRFQKTFQDTFKKILGLNFCTFHGRGFTRGSWGFLPFNRP
ITTVVGEPLPIPRIKRPNQKTVVDKYHALYISALRKLFDQHKVEYGLPETQELTIT (SEQ ID NO:12)

Human DC3 nucleic acid sequence

ATCAACTCAGCTTAAGAAGTTTGGCCTTCTGGTTAGGCTTGTGCCACAACAGAACAGCACCATAACCATG
GCTTCTTCTCCGACTGAATCTCAGGAGGGCCTCCAAACCTCTTGTGCAATGGATCCCAGTCTAT
ATATTTTAGTTGGATCTGCCAGCCATTGTCGTCTACCTGCTGTTACATCCTGTGGCCGCTGGTAAGG
CTTACTTGCCTGGTTGTTCTGGACTGGAAGACCCAGAGCGAGGTGGCAGGCCTGGCCTGGTAAGG
AACTGGTGTCTGGACCCACATCAGGGACTATTCCTCATTACGATCCTGAAGACAAAGGACCTATCACCT
GAGCACAACACTACCATGGGGTCCACCCATGGCTCCTGACCTTGGCCTCTGCAACTTCTGCACT
GAGGCCACAGGCTCTGAAGACCTTCCCAGGCATCACTCCTCACTGGCACGCTGTCTGGTTCTCAAG
ATCCCTTTGTTAGGGAGTACCTCATGGCCAAAGGTGTGCTGTGAGCCAGCCATCAACTATCTG
CTGAGCCATGGCACTGGCACCTCGTGGGATTGTAGTGGAGGTGTGGGTGAGGCCCTGCAAAGTGTGCC
AACACCAACCCCTCATCCTCAGAAGCCAAGGGGTTGTGCGCACAGCCTCCAGCATGGGCATACCTT
GTCCTTCATATCCTTGGTGAGAACATTCAAAAAAATCTGGACTAAATTCTGTACCTTCATGGCCGG
GGCTTCACTCGCGGATCCTGGGCTTCTGCCTTCAATCGGCCATTACCAACTGTTGTTGGGAACCCCTT
CCAATTCCCAGGATTAAGAGGCCAAACAGAACAGTAGACAAGTATCACGCACACTACATCAGTGCCCTG
CGCAAGCTTTGACCAACACAAAGTTGAATATGGCCTCCCTGAGACCCAAGAGCTGACAATTACATAACAG
GAGCCACATTCCCCATTGATCAACCCCCAAGCCATGAGGGATCCAAGTAGAGCCACAGAAAAGAAGAATT
CCAGGAGAGGAAAGATCGTAAGGATGAGAGAGGAGACCATCCAAGCCAGAAATTATTAATAATCAGAGT
TCTAGCAATAGAGTCC (SEQ ID NO:11)

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FIG. 8C

Human DC4 amino acid sequence

MLLPSKKDLKTALDVAFQWSFSALLITTVIAVNLYLVVFTPYWPVTVLILTWLAFDWKTPQRGGRRF
TCVRHWRLWKHYSDYFPLKLLKTHDICPSRNYILVCHPHGLFAHGWFGHFATEASGFSKIFPGITPYILT
LGAFFWMPFLREYVMSTGACSVRSSIDFLLTHKGTCGNMVIVVIGGLAECRYSLPGSSTLVLKNRSGFVR
MALQHGVPPLIPAYAFGETDLYDQHIFTPGGFVNRFQKWFQSMVHIYPCAFYGRGFTKNSWGLLPYSRPVT
TIVGEPLPMPKIEPNPSQEIVAKYHTLYIDALRKLFDQHKTKGISETQELEII (SEQ ID NO:014)

Human DC4 nucleic acid sequence

AATTCCGGCTTACTCACTATAGGGCTCGAGCGGCCCCGGCAGGTGCCGACTTCATTCCAAGTCTGCAC
ACAATGCAGGCAGTAGCCATGCCATGACAGCACATGACAGATACTACACCGCTGAATGTGCTCTAACCC
GGACTTGGCATTGCCCTACTGTTGAGGAAGCAGTGCCTTTCTCCAGTCAGTCTTCAGGTCCCTTCAACC
GGAACCATTAACCTGTGCACTCAGAACAAAGACATTCCCTACATTCCCTGCAAACACAGTCCTTCAGTT
ACTCTTTTTGAGGGGGGGCGCGGGGAACGGAGTCGCTCTGTCGCCAGGCTGGAGTGCAATGGTG
CAATCTCAGCTCACTGCAACCTCTGCCCTCCAGGTCCAAGCGATTCTCCTGCCTCAGCCTCCGGTAGC
CGGGACTACAGGCGCCTGCCACACGCCGGCTAATTGGTATTTTAGTAGAGACGAGGTTCGCCGT
GTTGGCAGGCTGGCTTGGAAACTCCTGACCTCAGGTGATTTACTCGCCTCGGCCTCCAAAGTGTGGGA
TTACAGGCATGCCACTGTGCCAGTCACAAGTTTATTTAGCCATTGATAAGTGTGAAGTTCCC
TGATGGCTAATGATGTTCTTTCCATGTGCTCATTGTCATCTATGCCAGAGAAGATTGGAGAGGAG
GACGTGAATTGGAGGAAACTGTTCCAGGATTCCCCACCTCTGGTGGCCACCGCTGGCTCACTGCCATT
GACCACACTGCAGGCAGAGCCTAGTGCAGTGCTGGAGCAGGGCCAGAGAGGGAGAGGCTTACAGTGTGA
ATTCAAGCTCAGCTGGGAAGAACACCTCCCTCTAGACCTGAATCGGTTCCAAGCAACCACACTGTG
ATTGCTGTCAACCTCTACCTGGTGGTTCACACCATACTGGCTGTCACTGTGCTTATTCTTACCTGGC
TGGCTTTGACTGGAAGACCCCTCAGCGAGGCGGCCGGTTACCTGTGAGGCAGTGGCGCTGT
GAAACACTACAGCGATTATTCCTCTCAAGCTCTGAAGACTCATGACATCTGCCAGCCGCAACTAC
ATCCTCGTCTGCCACCCCTCATGGCCTTTGCCCAGGATGGTTGGCCACTTGCCACAGAGGCTCAG
GCTTCTCCAAGATATTCCTGGCATCACCCCTACATACTCACACTGGGAGCCTTTCTGGATGCC
CCTCAGAGAATATGTAATGTCTACAGGGCCTGCTGTGAGTCGATCCTCATTGACTTCTGCTGACT
CATAAAGGCACAGGCAACATGGCATTGTGGTGAATGGCTGAGTCAGATACAGCCTGCCAG
GTTCTTCTACCTGGTGTGAAGAACCGGTCTGGTTGTGCGCATGGCCCTTCAGCATGGGTGCCTCT
AATAACCTGCCTATGCCCTTGGGAGACGGACCTCTATGATCAGCACATTCACTCCTGGTGGCTTGT
AACCGCTTCCAGAAGTGGTCCAGAGCAGTGGTACACATCTACCCCTGTGCTTCTATGGACGTGGCTTCA
CCAAGAACTCCTGGGCCTTCTGCCCTATAGTCGGCCTGTAACCACCATCGTCGGGAGCCTCTACCAAT
GCCCAAGATTGAGAATCCAAGCCAGGAGATCGTGGCTAAATATCACACACTCTATATTGATGCC
AAACTGTTGACCAGCATAAGACCAAGTTGGTATCTCAGAGACCCAGGAGCTGGAGATAATTGACAGA
CATCCCCAGTAGCCTTCACCCCTGGCTGGAAGGTATGGATGGACCCAGTGAGA (SEQ ID NO:013)

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FIG. 8D

Human DC5 amino acid sequence

MVEFAPLFVPWERRLQLTLAVLQFVFSFLALGKICTVGFIAALLFTRFWLLTVLYAAWWYLDRDKPRQGGRH
IQAIRCWTIWKYMKDYFPQLVKTAELDPSRNYIAGFPHGVLAvgAFANLCTESTGFSSIFPGIRPHLM
MLTLWFRAPFFRDYIMSAGLVTSEKESAAHILNRKGGGNLLGIIVGGAQEALDARPGSFTLLLNRKGKV
RLALTHGAPLVPIFSGENDLFDQIIPNSSGSWLRYIQNRLQKIMGISLPLFHGRGVFQYSFGLIPYRRPI
TTVGKPIEVQKTLHPSEEVNQLHQHYIKELCNLFEAHKLKFNI PADQHLEFC (SEQ ID NO:16)

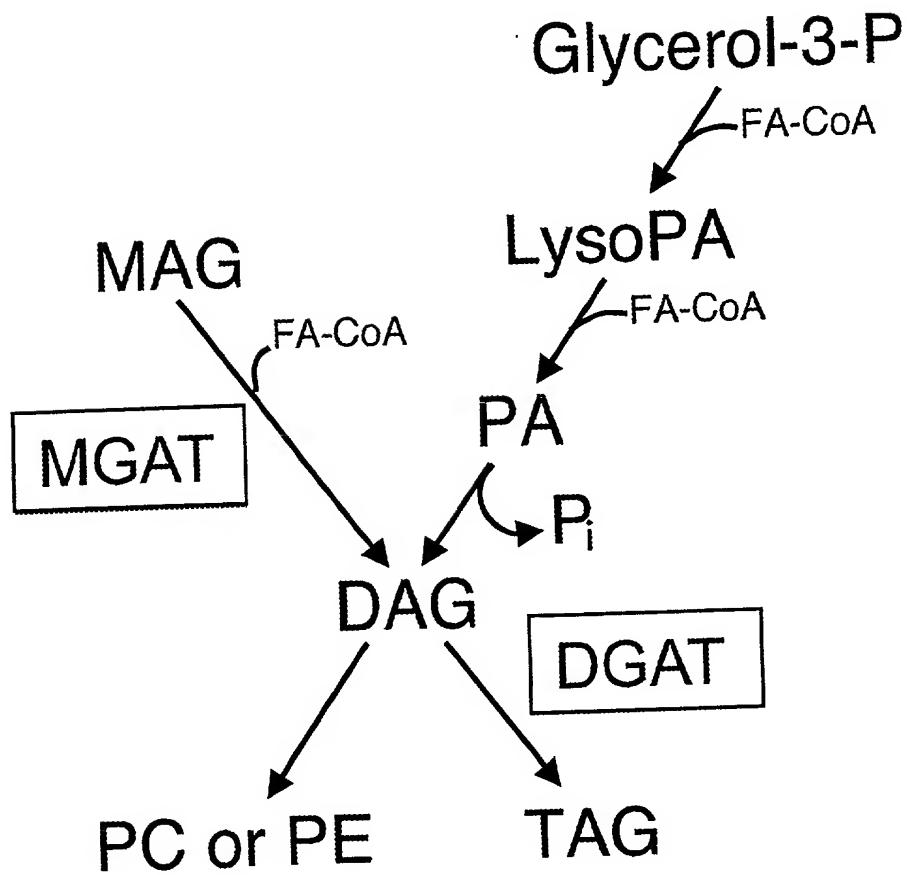
Human DC5 nucleic acid sequence

CCACAGCAGAGCTCACAGAACCTGCGGGAGGCCAGGCTGACCCGCCAGCATGGTAGAGTTCGGCCCTTGT
GTGCCGTGGGAGCGCAGGCTGCAGACACTTGCTGTCCTACAGTTGTCTTCCTTCTGGCACTGGTAAG
ATCTGCACTGTGGCTTCATAGCCCTCCTGTTACAAGATTCTGGCTCCTCACTGTCTGTATGCGGCCTGG
TGGTATCTGGACCGAGACAAGCCACGGCAGGGGGCGGCACATCCAGGCCATCAGGTGCTGGACTATATGG
AAGTACATGAAGGACTATTTCCCACATCCAGCTGGTCAAGACTGCTGAGCTGGACCCCTCTCGGAACACTACATT
GCGGGCTTCCACCCCCATGGAGTCCTGGCAGTCGGAGCCTTGCAACCTGTGCACTGAGAGCACAGGCTTC
TCCTCGATCTCCCCGGTATCCGCCCCATCTGATGATGCTGACCTTGTGGTTCCGGGCCCCCTTCAGA
GATTACATCATGTCTGCAGGGTTGGTCACATCAGAAAAGGAGAGTGTGCTCACATTCTGAACAGGAAGGGT
GGCGGAAACTTGCTGGCATATTGTAGGGGGTGCCTGGAGGGCCCTGGATGCCAGGCTGGATCTTCACG
CTGTTACTGCGGAACCGAAAGGGCTTCGTCAAGGCTGCCCTGACACACGGGGCACCCCTGGTGCCTTC
TCCTTCGGGGAGAATGACCTATTGACCAAGATTCCCAACTCTTCTGGCTCTGGTTACGCTATATCCAGAAT
CGGTTGCAGAAGATCATGGGCATCTCCCTCCACTCTTCATGCCGTGGTCTTCAGTACAGCTTG
TTAATACCTACCGCCGGCCCATCACCACGTGGGGAAAGCCCACAGAGGTACAGAAGACGCTGCATCCCTCG
GAGGAGGAGGTGAACCAGCTGCACCAGCATTATCAAAGAGCTGTGCAACCTCTCGAGGCCACAAACTT
AAGTTCAACATCCCTGCTGACCAGCACTGGAGTTCTGCTGA (SEQ ID NO:15)

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FIG. 9



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FIG. 10A

mMGAT1 MMVEFAPLN-----TPLAR-----
mDGAT2 MKTLIAAYSGVLRGERAARSENKNKGSALSREGSGRWGTGSSILSALQDIFSVTWLN
* . :* . . : . :* :*

mMGAT1 -----CLQTAAVLQWVLSFLLLQVQVICIMVMLVLYNYWFLYIPYLVWFFYDWRTPEQG
mDGAT2 RSKVEKQLQVISVLQWVLSFLVLGVACSVILMYTFCIDCWLIAVLYFTWLAFDWNTPKKG
. :***: * . * :* : . : * :* : * :* : :**.**:***

mMGAT1 GRRWNWVQSWPVWQYFKEYFPICLVKTQDLDPGHNYIFGFPHGIFVPGAFGNFCTKYSD
mDGAT2 GRRSQWVRNWAVWRYFRDYFPICLQVKTHNLLTRNYIFGYHPHGIMGLGAFCNFSTEATE
*** :**:.*.**:***:**** * :****:****: *** *.*: :

mMGAT1 FKKLFPGFTSYLHVAKIWCFPLFREYLMNSGPVSVSKESSLHVLSKDGGGNVSIIVLGG
mDGAT2 VSKKFPGIRPYLATLAGNFRMPVLREYLMGGICPVNRDTIDYLLSKNGSGNALLIVVGG
..* ***: .** . * :* :****. * . * . :****:****: *** *.*: :

mMGAT1 AKEALEAHPGTFTLCIRQRKGFKVMAUTHGASLVPVFSFGENDLYKQINNPKGSLRTIQ
mDGAT2 AAESLSSMPGKNAVTLKNRKGFKLALRHGADLVPTYSFGENEVYKQVIFEEGSWGRWVQ
* * :* . : * :****: * ***.***,****:****: :*** * :*

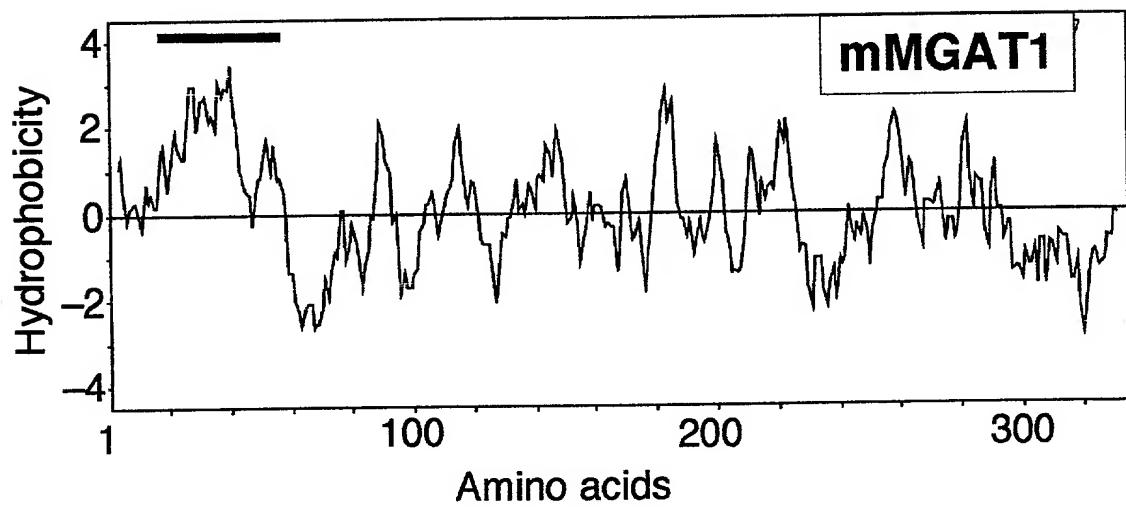
mMGAT1 DAMDSMGVALPLIYARGIFQ-HYFGIMPYRKLIYTUVGRPPIPQQIILNPTSEQIEELHQ
mDGAT2 KKFOKYIGFAPCIFHGRGLFSSDTWGLVPYSKPITTUVGEPITVPKLEHPTQKDIDLYHA
. : . :*.* : : .**:*. . :* :* * * ****.**. * : :* . :* : *

mMGAT1 TYLEELKKLFNEHKGKYGIPHEHETLVFK
mDGAT2 MYMEALVKLFDNHKTGFGLPETEVLEVN
*: * * ***: * * :* :* * . * .

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FIG. 10B



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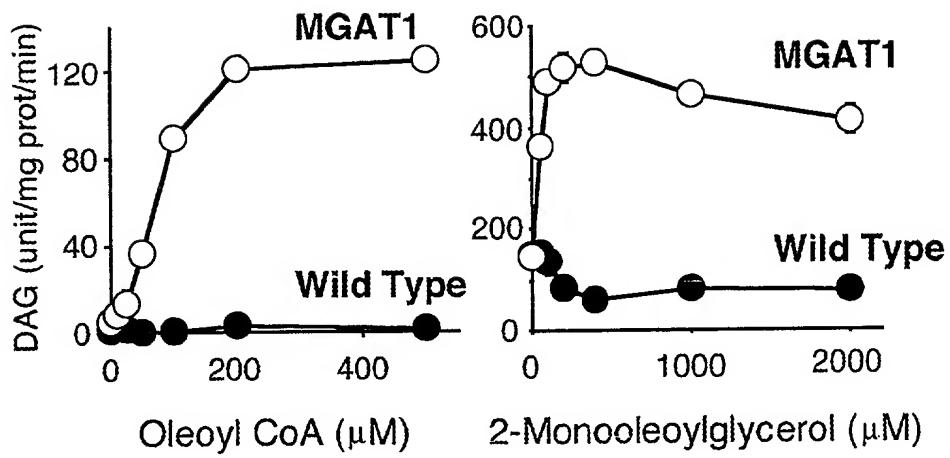


FIG. 11

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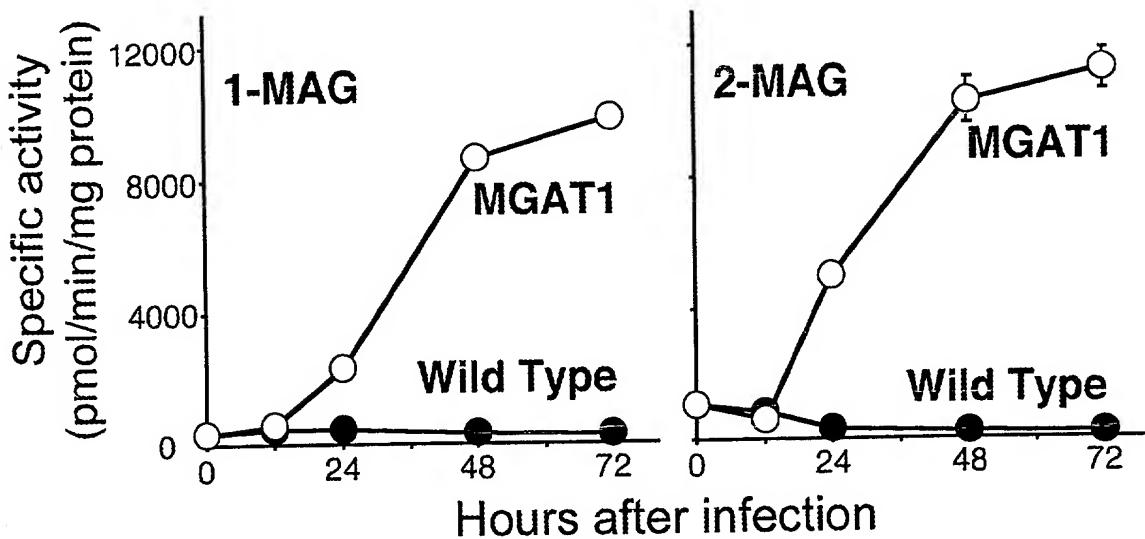


FIG. 12

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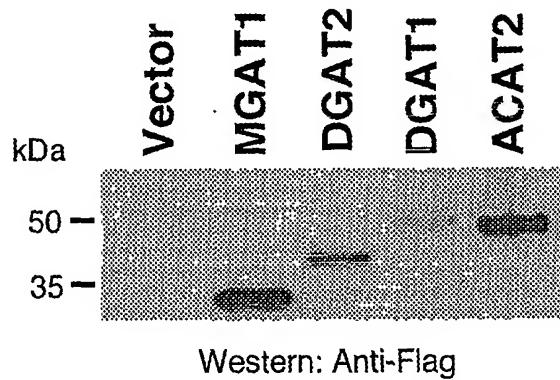


FIG. 13

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FIG. 14

